# Myanmar

# **Epidemiological Fact Sheet**

on HIV/AIDS and sexually transmitted infections



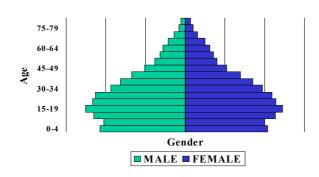
# 2000 Update





## **Country Information**

## Population pyramid, 1999



Indicators	Year	Estimate	Source
Total Population (thousands)	1999	45,059	UNPOP
Population Aged 15-49 (thousands)	1999	25,937	UNPOP
Annual Population Growth	1990-1998	1.2	UNPOP
% of Population Urbanized	1998	27	UNPOP
Average Annual Growth Rate of Urban Population	1990-1998	1.9	UNPOP
GNP Per Capita (US\$)			
GNP Per Capita Average Annual Growth Rate			
Human Development Index Rank (HDI)	1999	128	UNDP
% Population Economic Active			
Unemployment Rate			
Total Adult Literacy Rate	1995	83	UNESCO
Adult Male Literacy Rate	1995	89	UNESCO
Adult Female Literacy Rate	1995	78	UNESCO
Male Secondary School Enrollment Ratio	1996	34.8	UNESCO
Female Secondary School Enrollment Ratio	1996	35.9	UNESCO
Crude Birth Rate (births per 1,000 pop.)	1999	21	UNPOP
Crude Death Rate (deaths per 1,000 pop.)	1999	9	UNPOP
Maternal Mortality Rate (per 100,000 live births)	1990	580	WHO
Life Expectancy at Birth	1998	60	UNPOP
Total Fertility Rate	1998	2.4	UNPOP
Infant Mortality Rate (per 1,000 live births)	1999	76	UNICEF/UNPOP

## UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance

Global Surveillance of HIV/AIDS and sexually transmitted infections (STIs) is a joint effort of WHO and UNAIDS. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, initiated in November 1996, guides respective activities. The primary objective of the working group is to strengthen national, regional and global structures and networks for improved monitoring and surveillance of HIV/AIDS and STIs. For this purpose, the working group collaborates closely with national AIDS programmes and a number of national and international experts and institutions. The goal of this collaboration is to compile the best information available and to improve the quality of data needed for informed decisionmaking and planning at national, regional and global levels. The Epidemiological Fact Sheets are one of the products of this close and fruitful collaboration across the globe.

The working group and its partners have established a framework standardizing the collection of data deemed important for a thorough understanding of the current status and trends of the epidemic, as well as patterns of risk and vulnerability in the population. Within this framework, the Fact Sheets collate the most recent country-specific data on HIV/AIDS prevalence and incidence, together with information on behaviours (e.g. casual sex and condom use) which can spur or stem the transmission of HIV.

Not unexpectedly, information on all of the agreedupon indicators was not available for many countries in 1999. However, these updated Fact Sheets do contain a wealth of information which allows identification of strengths in currently existing programmes and comparisons between countries and regions. The Fact Sheets may also be instrumental in identifying potential partners when planning and implementing improved surveillance systems.

The fact sheets can be only as good as information made available to the UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance. Therefore, the working group would like to encourage all programme managers as well as national and international experts to communicate additional information to the working group whenever such information becomes available. The working group also welcomes any suggestions for additional indicators or information proven to be useful in national or international decision-making and planning.

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http://www.unaids.org

# Estimated number of people living with HIV/AIDS

In 1999 and during the first quarter of 2000, UNAIDS and WHO worked closely with national governments and research institutions to recalculate current estimates on people living with HIV/AIDS. These calculations are based on the previously published estimates for 1997 and recent trends in HIV/AIDS surveillance in various populations. A methodology developed in collaboration with an international group of experts was used to calculate the new estimates on prevalence and incidence of HIV and AIDS deaths, as well as the number of children infected through mother-to-child transmission of HIV. Different approaches were used to estimate HIV prevalence in countries with low-level, concentrated or generalized epidemics. The current estimates do not claim to be an exact count of infections. Rather, they use a methodology that has thus far proved accurate in producing estimates that give a good indication of the magnitude of the epidemic in individual countries. However, these estimates are constantly being revised as countries improve their surveillance systems and collect more information.

Adults in this report are defined as women and men aged 15 to 49. This age range covers people in their most sexually active years. While the risk of HIV infection obviously continues beyond the age of 50, the vast majority of those who engage in substantial risk behaviours are likely to be infected by this age. The 15 to 49 age range was used as the denominator in calculating adult HIV prevalence.

# □ Estimated number of adults and children living with HIV/AIDS, end of 1999

These estimates include all people with HIV infection, whether or not they have developed symptoms of AIDS, alive at the end of 1999:

Adults and children	530000		
Adults (15-49)	510000	Adult rate (%)	1.99
Women (15-49)	180000		
Children (0-15)	14000		

#### □ Estimated number of deaths due to AIDS

Estimated number of adults and children who died of AIDS during 1999:

Deaths in 1999 48000

#### □ Estimated number of orphans

Estimated number of children who have lost their mother or both parents to AIDS (while they were under the age of 15) since the beginning of the epidemic:

Cumulative orphans 43000

Estimated number of children who have lost their mother or both parents to AIDS and who were alive and under age 15 at the end of 1999:

Current living orphans 35458

#### Assessment of epidemiological situation – Myanmar

HIV prevalence among IV drug users in Rangoon had already reached 73 percent by 1989. Since that time HIV infection among IV drug users tested in Rangoon and Mandalay has ranged from over 50 percent to 85 percent. In Myitkyina, HIV prevalence among IV drug users tested had reached 90 percent by 1994 and remained at that level through 1995.

HIV prevalence among sex workers tested in Rangoon and Mandalay has increased from a median of 4 percent in 1992 to 26 percent in 1997. In 1995, HIV prevalence among sex workers tested in 20 sites was 18 percent.

Among male STD clinic patients tested in Rangoon and Mandalay, median HIV prevalence has increased from 8 percent in 1992 to 16 percent in 1997. Among female STD clinic patients, HIV prevalence increased from 2 to 10 percent. Outside of the major urban areas, HIV prevalence among male STD clinic patients tested has increased from 6 percent in 1992 to 13 percent in 1997. In 1997, HIV prevalence among female STD clinic patients tested was 3 percent.

Since 1992, HIV testing has been conducted among antenatal clinic attendees. HIV prevalence among antenatal clinic attendees tested in Rangoon and Mandalay increased from no evidence of infection in 1992 and 1993 to 0.8 percent in 1995. HIV prevalence among this group has remained below 1 percent through 1997. Outside of the major urban areas, HIV prevalence among antenatal clinic attendees tested in 13 sites in 1997 reached 1.5.

HIV infection among military recruits tested in Rangoon and Mandalay has increased from 0.5 percent in 1992 to 1.5 percent in 1997.

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#### **HIV** sentinel surveillance

This section contains information about HIV prevalence in different populations. The data reported in the tables below are mainly based on the HIV data base maintained by the United States Bureau of the Census where data from different sources, including national reports, scientific publications and international conferences is compiled. To provide for a simple overview of the current situation and trends over time, summary data are given by population group, geographical area (Major Urban Areas versus Outside Major Urban Areas), and year of survey. Studies conducted in the same year are aggregated and the median prevalence rates (in percentages) are given for each of the categories. The maximum and minimum prevalence rates observed, as well as the total number of surveys/sentinel sites, are provided with the median, to give an overview of the diversity of HIV-prevalence results in a given population within the country. Data by sentinel site or specific study on which the medians were calculated are printed at the end of this fact sheet.

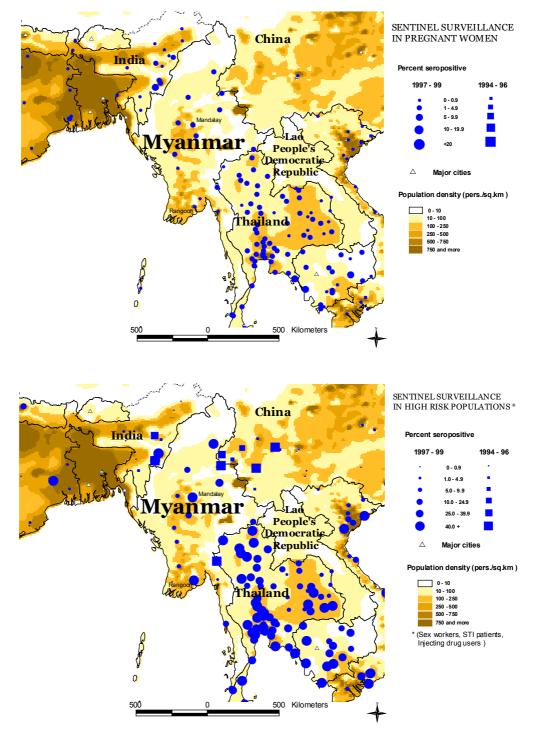
The differentiation between the two geographical areas Major Urban Areas and Outside Major Urban Areas is not based on strict criteria, such as the number of inhabitants. For most countries, Major Urban Areas were considered to be the capital city and – where applicable – other metropolitan areas with similar socio-economic patterns. The term Outside Major Urban Areas considers that most sentinel sites are not located in strictly rural areas, even if they are located in somewhat rural districts.

☐ HIV prevalence in selected populations in percent (for blood donors: 1/100 000)

Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
Pregnant women	Major Urban Areas	N-sites									2	2	2	2	2	2	
		Minimum									0	0	0.3	0.3	8.0	0	
		Median									0	0	0.4	8.0	8.0	0.65	
		Maximum									0	0	0.5	1.3	0.8	1.3	
Pregnant women	Outside Major Urban Areas	N-sites									4	8	10	11	11	13	
		Minimum									0	0.5	0	0.5	0	0	
		Median									2.95	1	1.1	1	1	1.5	
		Maximum									5.5	10	8.4	7.8	8	4.8	
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
Sex workers	Major Urban Areas	N-sites									2	2	2	2	2	2	
		Minimum									1.8	7.8	11	11.7	15.5	17.5	
		Median									3.6	9.9	13.8	18.1	21	25.5	
		Maximum									5.4	12	16.5	24.5	26.5	33.5	
Sex workers	Outside Major Urban Areas	N-sites											1	1			
	•	Minimum											16	18.2			
		Median											16	18.2			
		Maximum											16	18.2			
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
njecting drug users	Major Urban Areas	N-sites						1			2	2	2	2	2	2	
, , ,	,	Minimum						72.9			57	70.3	57.5	51.5	59	65.5	
		Median						72.9			61.6	77.55	70.5	65.25	65.6	69	
		Maximum						72.9			66.1	84.8	83.5	79	72.2	72.5	
njecting drug users	Outside Major Urban Areas	N-sites							1		2	4	4	5	4	3	
injooting drag doord	Catolae Major C.Barr / 11 Cac	Minimum							2.3		46.3	28	22	26.5	34.7	20.5	
		Median							2.3		61.9	62.2	60.2	82.4	83.8	30.2	
		Maximum							2.3		77.5	94	96.4	91.2	86.6	76.1	
Group	Area	maximam	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
STI patients	Major Urban Areas	N-sites	1001	1000	1000	1001	1000	1000	1000	1001	4	4	4	4	4	4	1000
o i i pationto	major orban / trodo	Minimum									1.9	0.5	4.1	3.5	5.9	6.9	
		Median									3.35	3.8	6.5	6.05	7.1	13.2	
		Maximum									11.8	13.8	13.5	12.5	15.5	19.5	
STI patients	Outside Major Urban Areas	N-sites									18	21	21	22	22	22	
ori patients	Outside Major Orban Areas	Minimum									1.85	0	0	0.5	0	0	
		Median									5.25	4.6	4.5	4.5	6	8	
		Maximum									18.4	21.2	32.7	29.5	21.6	18.5	
Group	Area	Maximum	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
Blood Donors	National	N-sites	1964	1900	1900	1907	1900	1909	1990	1991	1992	1995	1994	1995	1990	1997	1990 1
biood Dollors	National	Minimum															
		Median															
N		Maximum															
Blood Donors	Major Urban Areas	N-sites															
		Minimum															
		Median															
		Maximum															
_	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998 1
Group																	
Men having sex with	Major Urban Areas	N-sites															
	Major Urban Areas	N-sites Minimum															
Men having sex with	Major Urban Areas																

#### Maps of HIV sentinel sites

Mapping the geographical distribution of HIV sentinel sites for different population groups may assist interpreting both the national coverage of the HIV surveillance system and explaining differences in levels and trends of prevalence. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, in collaboration with the UNICEF/WHO HealthMap Programme, has produced maps showing the location and HIV prevalence of HIV sentinel sites in relation to population density, major urban areas and communication routes. Maps illustrate separately the most recent results from HIV sentinel surveillance in pregnant women and in sub-populations at higher risk of HIV infection.



The boundaries and names shown and the designations used on these maps do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

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# **Reported AIDS cases**

# AIDS cases by year of reporting

0 0	0 0 0 0 0 0 0 0 0 6	41	142	286	618	690	554	231		2568	
Date of last re	port: 31-03-1998	•		•		•	•	•			
2010 01 1001 16	po 5. 55 1000	Δid	ls case	s hv	age	and s	ex				
Following WH	O and UNAIDS recommendations, AIDS case reporting is carried out in			-96	1996	1997	1998	1999	Unkn.	Total	%
	s. Data from individual AIDS cases is aggregated at the national level and	d ——	All	100	1330	1337	1330	1333	Olikii.	Total	70
sent to WHO. I	However, case reports come from surveillance systems of varying quality	, All	0-4								
	es vary substantially from country to country and low reporting rates are		5-9								
common in o	developing countries due to weaknesses in the health care and	d	10-14								
epidemiologica	al systems. In addition, countries use different AIDS case definitions.	4	15-14								
main disadvar	ntage of AIDS case reporting is that it only provides information on		20-24								
transmission p	patterns and levels of infection approximately 5-10 years in the past	t,	25-29								
limiting its use	fulness for monitoring recent HIV infections.		30-34								
· ·	•		35-39								
Despite these	caveats, AIDS case reporting remains an important advocacy tool and	d	35-39 40-44								
is useful in es	stimating the burden of HIV-related morbidity as well as for short-term	n									
planning of he	ealth care services. AIDS case reports also provide information on the	е	45-49								
demographic	and geographic characteristics of the affected population and on the	е	50-54								
relative importa	ance of the various exposure risks. In some situations, AIDS reports car	n	55-59								
be used to est	timate earlier HIV infection patterns using back-calculation. AIDS case	е	60+								
reports and All	DS deaths have been dramatically reduced in industrialized countries with	h <del></del>	NS								
the introductio	on of HAART (Highly Active Anti-Retroviral Therapy).	Male									
			0-4								
			5-9								
AIDS case	s by mode of transmission		10-14								
	•		15-19								
	Hatara, Hataraaawal aantaata		20-24								
	Hetero: Heterosexual contacts.		25-29								
	Homo/Bi: Homosexual contacts between men.  IDU: Injecting drug use. This transmission category also includes		30-34								
	cases in which other high-risk behaviours were reported, in addition		35-39								
	to injection of drugs.		40-44								
	Blood: Blood and blood products.		45-49								
	Perinatal: Vertical transmission during pregnancy, birth or breastfeeding.		50-54								
	NS: Not specified/unknown.		55-59								
			60+								
Sex	Trans. Group <96 1996 1997 1998 1999 Unkn Total %		NS								
All	Total	Fema									
	Hetero		0-4								
	Homo/Bi		5-9								
	IDU		10-14								
	Blood		15-19								
	Perinatal		20-24								
	Other Known		25-29								
	Unknown		30-34								
Male	Total		35-39								
	Hetero		40-44								
	Homo/Bi		45-49								
	IDU		50-54								
	Blood		55-59								
	Perinatal		60+								
	Other Known		NS								
	Unknown	NS	All								
Female	Total		0-4								
	Hetero		5-9								
	IDU		10-14								
	Blood		15-19								
	Perinatal		20-24								
	Other Known		25-29								
	Unknown		30-34								
NS	Total		25 20								

35-39

40-44

45-49 50-54

55-59

60+

NS

1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 Total Unkn

NS

Total Hetero

IDU

Blood

Perinatal Other Known

Unknown

## **Curable Sexually Transmitted Infections (STIs)**

The predominant mode of transmission of both HIV and other STIs is sexual intercourse. Measures for preventing sexual transmission of HIV and STI are the same, as are the target audiences for interventions. In addition, strong evidence supports several biological mechanisms through which STI facilitate HIV transmission by increasing both HIV infectiousness and HIV susceptibility. Significant also is the observation of a sharp decline in the concentration of HIV in the genital secretions when the infection is treated. Monitoring trends in STI can provide valuable information on the sexual transmission of HIV as well as the impact of behavioural interventions, such as promotion of condom use.

Clinical services offering STI care are an important access point for people at high risk for both AIDS and STI, not only for diagnosis and treatment but also for information and education. Therefore, control and prevention of STI have been recognized as a major strategy in the prevention of HIV

□ Estimated incide	nice and pre	valence of C	Julavie 3 i IS					
		Incid	ence			Pre	valence	
STI's	Year	Male	Female	All	Year	Male	Female	F
Chlamydia trach.								
Gonorrhoea								
Syphilis Trichomonas								
Comments:								
Source:								
□ STI Incidence	ıon.							
□ STI Incidence, m	611							
Prevention Indicator 9:	Proportion of	of men aged	15-49 years	who reported 6	episodes of ι	ırethritis in	the last 12 n	nonths.
Year		Area		٨٥٥		Rate	N=	_
rear		Aita		Age		Nate	N-	
Prevention Indicator 8: screened with positive	•	. •	vomen aged	15-24 years at	tending ante	natal clinic	s whose bloo	od has b
	•	. •	vomen aged	15-24 years at <b>Age</b>	-	natal clinic	s whose bloo N=	
screened with positive	•	syphilis.	vomen aged	·	-			
Year Comments:	•	syphilis.	vomen aged	·	-			
Year  Comments: Sources:	serology for s	Area	vomen aged	·	-			
Year  Comments: Sources:	serology for s	Area	vomen aged	·	-			
Year  Comments: Sources:  STI Case manage	serology for s	Area		Age		Rate	N=	=
Year  Comments: Sources:  STI Case manage  Prevention Indicator 7:	ement (coun	Area  selled) of people pre-		Age		Rate	N=	=
Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partners	ement (coun	Area  selled) of people present.		Age STI or for STI	care in healtl	Rate h facilities	<b>N=</b> who received	= d basic a
Year  Comments: Sources:  STI Case manage  Prevention Indicator 7:	ement (coun	Area  selled) of people pre-		Age	care in healtl	Rate	N=	= d basic a
Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partners	ement (coun	Area  selled) of people present.		Age STI or for STI	care in healtl	Rate h facilities	<b>N=</b> who received	= d basic a
Comments: Sources:  STI Case manage Prevention Indicator 7: condoms and on partner Year	ement (coun	Area  selled) of people present.		Age STI or for STI	care in healtl	Rate h facilities	<b>N=</b> who received	= d basic a
Screened with positive  Year  Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partner  Year  Comments: Sources:	ement (coun Proportion of	Area  selled) of people pre		Age STI or for STI	care in healtl	Rate h facilities	<b>N=</b> who received	= d basic a
Screened with positive  Year  Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partner  Year  Comments:	ement (coun Proportion of	Area  selled) of people pre		Age STI or for STI	care in healtl	Rate h facilities	<b>N=</b> who received	= d basic a
Screened with positive  Year  Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partner  Year  Comments: Sources:	ement (coun Proportion of the remaining	Area  selled) of people pre	senting with	Age STI or for STI	care in healti	Rate  n facilities	N= who received N=	= d basic a
Year  Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partner  Year  Comments: Sources:  STI Case manage	ement (coun Proportion of er notification  ement (treat	Area  selled) of people pre	senting with	Age STI or for STI	care in healti	Rate  n facilities	N= who received N=	= d basic a
Year  Comments: Sources:  STI Case manage  Prevention Indicator 7: condoms and on partner  Year  Comments: Sources:  STI Case manage  Year  Comments: Sources:	ement (coun Proportion of er notification  ement (treat	Area  selled) of people pre	senting with	Age STI or for STI	care in health	Rate  n facilities	N= who received N=	d basic

Comments: Sources:

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#### Health service indicators

HIV prevention strategies depend on the twin efforts of care and support for those living with HIV or AIDS, and targeted prevention for all people at risk or vulnerable to the infection. These efforts may range from reaching out to vulnerable communities through large-scale educational campaigns or interpersonal communication; provision of treatment for STIs; distribution of condoms and needles; creating and enabling environment to reduce risky behaviour; providing access to voluntary testing and counselling; home or institutional care for persons with symptomatic HIV infection; and preventing perinatal transmission and transmission through infected needles or blood in health care settings. It is difficult to capture such a large range of activities with one or just a few indicators. However, a set of well-established health care indicators – such as the percentage of a population with access to health care services; the percentage of women covered by antenatal care; or the percentage of immunized children – may help to identify general strengths and weaknesses of health systems. Specific indicators, such as access to testing and blood screening for HIV, help to measure the capacity of health services to respond to HIV/AIDS – related issues.

#### □ Access to health care

Indicators	Year	Estimate	Source
% of population with access to health services – total:			
% of population with access to health services – urban:			
% of population with access to health services – rural:			
Contraceptive prevalence rate (%):	1990-1999	33	UNICEF/UNPOP
% of births attended by trained health personnel:	1990-1999	56	UNICEF
% of 1-yr-old children fully immunized – DPT:	1995-1998	87	UNICEF
% of 1-yr-old children fully immunized – Polio:	1995-1998	88	UNICEF
% of 1-yr-old children fully immunized – Measles:	1995-1998	85	UNICEF
Proportion of blood donations tested:			
% of ANC clinics where HIV testing is available:			
HIV/AIDS Hospital Occupancy Rate (Days):			

Male and female condoms are the only technology available that can prevent sexual transmission of HIV and other STIs. Persons exposing themselves to the risk of sexual transmission of HIV should have consistent access to high quality condoms. AIDS Programmes implement activities to increase both availability of and access to condoms. The two condom availability indicators below are intended to highlight areas of strength and weakness at the beginning and end of the distribution system so that programmatic resources can be directed appropriately to problem areas.

# Condom availability (central level) Prevention Indicator 2: Availability of condoms in the country over the last 12 months (central level). Year Area N Rate Comments: Sources: Condom availability (peripheral level) Prevention Indicator 3: Proportion of people who can acquire a condom (peripheral level). Year Area N Rate

Sources

# Knowledge and behaviour

In most countries the HIV epidemic is driven by behaviours (e.g.: multiple sexual partners, intravenous drug use) that expose individuals to the risk of infection. Information on knowledge and on the level and intensity of risk behaviour related to HIV/AIDS is essential in identifying populations most at risk for HIV infection and in better understanding the dynamics of the epidemic. It is also critical information in assessing changes over time as a result of prevention efforts. One of the main goals of the 2<sup>nd</sup> generation HIV surveillance systems is the promotion of regular behavioural surveys in order to monitor trends in behaviours and target interventions.

	Knowledge of HIV- rel	ated preventive pra	ctices				
Pre	evention Indicator 1: Propo	ortion of people citing	at least two acceptable	ways of pro	otection from HI\	/ infection.	
	Year	Area	Age Group	Male	Female	All	
	mments: urces:						
	Reported non-regular	sexual partnership	<u>s</u>				
	evention Indicator 4: Propo months.	ortion of sexually acti	ve people having at leas	st one sex p	artner other thar	n a regular partner in th	e last
	Year	Area	Age Group	Male	Female	All	
	mments: urces:						
<u> </u>	Reported condom use						
Pre	evention Indicator 5: Propo	ortion of people repor	ting the use of a condor	m during the	most recent inte	ercourse of risk.	
	Year	Area	Age Group	Male	Female	All	
	mments:						

ge and b	ehaviour					
□ Ever	use of condom					
Danasataas	<b>f</b> lele					
Percentage	e or people who ev	ver used a condom.				
	Year	Area	Age Group	Male	Female	All
Comments:						
Sources:						
☐ Media	an age at first sex	cual experience				
Median age	e of people at whic	ch they first had sexu	ial intercourse.			
	Year	Area	Age Group	Male	Female	All
Comments: Sources:						
□ Adole	escent pregnancy	1				
		-				
Percentage	e of teenagers 15-	19 who are mothers	or pregnant with their fir	st child.		
	Year	Area	Age Group		Rate	N
Commonto:						
Comments: Sources:						
Sources:	ortion of people e	ver having had sex	with same sex			
Sources:	ortion of people e	ever having had sex	with same sex			
Sources:					Data	N
Sources:	ortion of people e	ever having had sex	Age Group		Rate	N
Sources:					Rate	N
Sources:					Rate	N

Comments: Sources:

□ Reported non-regular sexual partnerships (MSM)

Area

Age Group

Rate

Year

N

#### **Sources**

Data presented in this Epidemiological Fact Sheet come from several different sources, including global, regional and country reports, published documents and articles, posters and presentations at international conferences, and estimates produced by UNAIDS, WHO and other United Nations Agencies. This section contains a list of the more relevant sources used for the preparation of the Fact Sheet. Where available, it also lists selected national Web sites where additional information on HIV/AIDS and STI are presented and regularly updated. However, UNAIDS and WHO do not warrant that the information in these sites is complete and correct and shall not be liable whatsoever for any damages incurred as a result of their use.

AIDS Prevention and Control, 1997, Sentinel Surveillance Data for March and September 1997, AIDS Prevention and Control Project, Department of Health, tables.

Goodwin, D. J., R. Mra, 1997, Geographic Distribution of HIV/AIDS in Myanmar: Evidence of a Major East-West Gradient, 4th International Conference on AIDS and the Pacific, Manila, Philippines, 10/25-29, Session AP109.

Htoon, M. T., H. H. Lwin, K. O. San, et al., 1994, HIV/AIDS in Myanmar, AIDS, vol. 8, suppl. 2, pp. S105-S109.

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Voice of Myanmar, 1991, AIDS Cases, Summary of World Broadcasts, July 10, Third Series FE/W0187, pp. A7-A8.

#### Websites:

# 12 – Myanmar

# Annex: HIV Surveillance data by site

Croup	Aron					1007	1000	1000	1000	1991	1000	1993	1994	1995	1996	1997	1998	1999
Group Pregnant women	Area Major Urban Areas	Mandalay	1984	1985	1986	1987	1988	1989	1990	1991	1992 0	1993	0.3	1.3	0.8	1.3	1996	1999
Fregnant women	Major Orban Areas	Rangoon									0	0	0.5	0.3	0.8	0.0		
Pregnant women	Outside Major Urban	Bago										0.5	0.0	0.0	0.0	0.0		
r rognant womon	Areas	Lago										0.0				0.0		
		Bamaw											1.4	2.7	2.5	1.5		
		Dawei										2.5	0.5	1	1	2.0		
		Kawthaung									5.4	2	3.8	3	1.3	4.8		
		Lashio														1.3		
		Magway												1.1	1	2.3		
		Mawlamyaing										0.5	0.0	0.5	1.3	0.5		
		Monywa										0.5	8.0	8.0	0	2.2		
		Muse											1.8	0.5	1.5	1.3		
		Myitkyina									0.5	1	2.3	1.0	0.8	1.5		
		Pyay											0.0	1	0.3	0.3		
		Tachileik									5.5	10	8.4	7.8	8	4.3		
		Taunggyi									0	1	0.0	0.5	0.5	2.0		
Group	Area	Mandala	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers	Major Urban Areas	Mandalay									5.4	12.0	16.5	24.5	26.5	33.5		
C	Outside Maios Hober	Rangoon									1.8	7.8	11.0	11.7	15.5	17.5		
Sex workers	Outside Major Urban Areas	20 sites					1							18.2				
	000	Magway		<b>+</b>	<b>†</b>	1	1						16.0			1		
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Injecting drug users	Major Urban Areas	Rangoon						72.9			66.1	70.3	57.5	51.5	59.0	65.5		
	-	Mandalay									57	84.8	83.5	79.0	72.2	72.5		
Injecting drug users	Outside Major Urban	Bamaw			İ							94	96.4	87.5				
	Areas																	
		Lashio										28	22	60.9	83	30.2		
		Muse												82.4	84.6			
		Myitkyina									77.5	93	90	91.2	86.6	76.1		
		Myitkyina & Bhamo							2.3									
		Taunggyi									46.3	31.4	30.3	26.5	34.7	20.5		
Group	Area	Mandala (Famalas)	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
STI patients	Major Urban Areas	Mandalay (Females) Mandalay (Males)									2.2 11.8	0.5 13.8	5.2 13.5	3.5 12.5	5.9 15.5	13.5 19.5		
		Rangoon (Females)									1.9	2.2	4.1	5.9	6.3	6.9		
		Rangoon (Males)									4.5	5.4	7.8	6.2	7.9	12.8		
STI Patients	Outside Major Urban	Bago (Females)									2.9	8.5	5.8	9	3.2	8		
	Areas	9- ()												-		_		
		Bago (Males)									4.5	3.2	2.9	3	3.5	2.5		
		Bamaw (Males)										10.6	٥.	8.6	3	0.5		
		Dalliaw (Males)										10.0	6.5	0.0	3	6.5		
		Dawei (Females)									4	6.5	9	0.5	2.5	4		
											4 12							
		Dawei (Females) Dawei (Males) Kawthaung										6.5	9	0.5	2.5	4		
		Dawei (Females) Dawei (Males) Kawthaung (Females)									12 18.4	6.5 5.5	6.3	0.5 8	2.5 8	13.1		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males)									12	6.5	9	0.5 8 29.5	2.5 8 21.6	4 13.1 18.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males)									12 18.4	6.5 5.5 21.2	9 6.3 32.7	0.5 8 29.5 11.6	2.5 8 21.6 4.9	4 13.1 18.5 3.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males)									12 18.4 14.4	6.5 5.5	6.3	0.5 8 29.5	2.5 8 21.6	4 13.1 18.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Madwamyaing									12 18.4	6.5 5.5 21.2	9 6.3 32.7	0.5 8 29.5 11.6	2.5 8 21.6 4.9	4 13.1 18.5 3.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males)									12 18.4 14.4	6.5 5.5 21.2	9 6.3 32.7	0.5 8 29.5 11.6	2.5 8 21.6 4.9	4 13.1 18.5 3.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawhamyaing (Females)									12 18.4 14.4 1.9	6.5 5.5 21.2 5.6	9 6.3 32.7	0.5 8 29.5 11.6 4	2.5 8 21.6 4.9 12	18.5 3.5 8.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamying (Males) Meikhtela (Males)									12 18.4 14.4 1.9 2.6	5.6 5.5 21.2 5.6	9 6.3 32.7 4 4	29.5 11.6 4 2.2	2.5 8 21.6 4.9 12 4.5	18.5 3.5 8.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Females)									12 18.4 14.4 1.9 2.6	5.6 21.2 5.6 3 4.6 5.4	9 6.3 32.7 4 4 5	29.5 11.6 4 2.2 5.5 2.5	2.5 8 21.6 4.9 12 4.5 7	18.5 3.5 8.5 2		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawlamyaing (Females) Mawlamyaing (Males) Meikhtela (Males) Monywa (Females) Monywa (Males)									12 18.4 14.4 1.9 2.6	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8	9 6.3 32.7 4 4 5 4 3	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7	2.5 8 21.6 4.9 12 4.5 7 13 11.5	18.5 3.5 8.5 2 14.1		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawlamyaing (Females) Mawlamyaing (Males) Meikhtela (Males) Monywa (Females) Monywa (Males) Muse (Males)									12 18.4 14.4 1.9 2.6 3.8 4.4	5.6 5.5 5.6 3 4.6 5.4 12.8 3	9 6.3 32.7 4 4 5 4 3 3	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Males) Muse (Males) Muse (Males) Muse (Males) Myitkyina (Females)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7	5.6 21.2 5.6 3 4.6 5.4 12.8 3 2.6	9 6.3 32.7 4 4 5 4 3 3 8.3	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4 12.1		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawdamyaing (Females) Mawdamyaing (Males) Meikhtela (Males) Monywa (Females) Monywa (Males) Muse (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females)									12 18.4 14.4 1.9 2.6 3.8 4.4	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawlamyaing (Females) Mawlamyaing (Males) Meikhtela (Males) Monywa (Females) Monywa (Males) Muse (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7	5.6 5.5 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5 14.3 0.5	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawlamyaing (Females) Mawlamyaing (Males) Meikhtela (Males) Monywa (Females) Muse (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Myitkyina (Males) Pa-an (Males) Pathein (Males)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5 14.3 0.5	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Females) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pa-an (Males) Pathein (Males) Pyay (Males)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0 2.5	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2	29.5 11.6 4 2.2 5.5 7 4 9.3 10.9 0.6 0.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5 14.3 0.5 1.1 5.5	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 0.5 6.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawdamyaing (Females) Mawdamyaing (Males) Monywa (Females) Monywa (Females) Monywa (Males) Muse (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pa-an (Males) Pathein (Males) Pyay (Males) Sittway (Males)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5 14.3 0.5	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawamyaing (Females) Mawiamyaing (Males) Monywa (Females) Monywa (Females) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Paran (Males) Pathein (Males) Pyay (Males) Sittway (Males) Tachileik (Females)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 4.5	29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5 0.6 0.5 2.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5 14.3 0.5 1.1 5.5	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 6.5		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawlamyaing (Females) Mawlamyaing (Males) Meikhtela (Males) Monywa (Females) Myitkyina (Females) Myitkyina (Females) Myitkyina (Males) Pa-an (Males) Pathein (Males) Pyay (Males) Sitway (Males) Tachileik (Females) Tachileik (Females)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 4.5 0	29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.6 0.5 2.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 17 5.5 14.3 0.5 0	4 13.1 18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 0.5 6.5 0		
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pathein (Males) Pathein (Males) Pathein (Males) Sittway (Males) Tachileik (Females) Tachileik (Females) Taunggyi (Females)									12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3 6.7 6.5 17	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 2 4.5 0	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.6 0.5 2.5 12.6 5	2.5 8 21.6 4.9 12 4.5 7 13 11.7 5.5 14.3 0.5 1.1 5.5 0	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 0		
Group	Area	Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawlamyaing (Females) Mawlamyaing (Males) Meikhtela (Males) Monywa (Females) Myitkyina (Females) Myitkyina (Females) Myitkyina (Males) Pa-an (Males) Pathein (Males) Pyay (Males) Sitway (Males) Tachileik (Females) Tachileik (Females)	1984	1985	1986	1987	1988	1989	1990	1991	12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3 6.7 6.5 17 3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 4.5 0	29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5 0.6 0.5 2.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 5.5 14.3 0.5 1.1 5.5 0	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 0	1998	1999
Group Blood Donors	Area National	Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pathein (Males) Pathein (Males) Pathein (Males) Sittway (Males) Tachileik (Females) Tachileik (Females) Taunggyi (Females)	1984	1985	1986	1987	1988	1989	1990	1991	12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3 6.7 6.5 17	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 2 4.5 0	0.5 8 29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.6 0.5 2.5 12.6 5	2.5 8 21.6 4.9 12 4.5 7 13 11.7 5.5 14.3 0.5 1.1 5.5 0	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 0	1998	1999
		Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pathein (Males) Pathein (Males) Pathein (Males) Sittway (Males) Tachileik (Females) Tachileik (Females) Taunggyi (Females)	1984	1985	1986	1987	1988	1989	1990	1991	12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3 6.7 6.5 17 3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 4.5 0	29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5 0.6 0.5 2.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 5.5 14.3 0.5 1.1 5.5 0	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 0	1998	1999
Blood Donors	National	Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pathein (Males) Pathein (Males) Pathein (Males) Sittway (Males) Tachileik (Females) Tachileik (Females) Taunggyi (Females)	1984	1985	1986	1987	1988	1989	1990	1991	12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3 6.7 6.5 17 3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 4.5 0	29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5 0.6 0.5 2.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 5.5 14.3 0.5 1.1 5.5 0	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 0	1998	1999
Blood Donors Blood Donors	National Major Urban Areas	Dawei (Females) Dawei (Males) Kawthaung (Females) Kawthaung (Males) Lashio (Males) Magway (Males) Mawiamyaing (Females) Mawiamyaing (Males) Meikhtela (Males) Monywa (Males) Muse (Males) Myitkyina (Females) Myitkyina (Females) Pa-an (Males) Pathein (Males) Pathein (Males) Pathein (Males) Sittway (Males) Tachileik (Females) Tachileik (Females) Taunggyi (Females)	1984	1985	1986	1987	1988	1989	1990	1991	12 18.4 14.4 1.9 2.6 3.8 4.4 4 8.7 13.3 6.7 6.5 17 3	6.5 5.5 21.2 5.6 3 4.6 5.4 12.8 3 2.6 11.6 0.8 0 2.5 1.3	9 6.3 32.7 4 4 5 4 3 3 8.3 6.9 0 2 4.5 0	29.5 11.6 4 2.2 5.5 2.5 7 4 9.3 10.9 0.5 0.6 0.5 2.5	2.5 8 21.6 4.9 12 4.5 7 13 11.5 5.5 14.3 0.5 1.1 5.5 0	18.5 3.5 8.5 2 14.1 6.5 16.4 12.1 17.5 1.5 0.5 0	1998	1999